

# INTERNATIONAL SEARCH REPORT

International Filing No.  
PCT/IB 03/01335

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|--|--|---|
| <b>A. CLASSIFICATION OF SUBJECT MATTER</b><br>IPC 7 C07K16/30 C12N5/28 C12N15/08 G01N33/574 G01N33/577<br>A61K51/10 A61K39/395 A61K47/48 A61P35/00   |  |   |
| According to International Patent Classification (IPC) or to both national classification and IPC  |  |   |
| <b>B. FIELDS SEARCHED</b><br>Minimum documentation searched (classification system followed by classification symbols)<br>IPC 7 C07K   |  |   |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  |  |   |
| Electronic data base consulted during the international search (name of data base and, where practical, search terms used)<br>BIOSIS, EPO-Internal, SEQUENCE SEARCH, WPI Data, PAJ, MEDLINE, EMBASE  |  |   |
| <b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>  |  |   |
| Category *   | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.   |
| X  | WO 01 83560 A (ICHIKAWA KIMIHISA ;KIMBERLY ROBERT P (US); KOOPMAN WILLIAM J (US);)<br>8 November 2001 (2001-11-08)<br><br>abstract<br>page 1, line 25 - line 31<br>page 3, line 7 - line 9<br>page 4, line 25 - line 28<br>page 5, line 20 - line 30<br>page 5, line 22 - line 25<br>page 6, line 3 - line 5<br>page 6, line 25 - line 27<br>page 12, line 18 - line 31<br>page 20, line 1 - line 8<br>page 29, line 27 - line 28<br>page 30, line 17 - line 29<br>page 35, line 6 - line 11<br>page 36, line 15 - line 17<br>page 58, line 1 - line 2<br><br><div style="text-align: right;">-/--</div> | 1-6, 13,<br>14,<br>17-20,<br>26-53  |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <span style="margin-left: 100px;"><input checked="" type="checkbox"/> Patent family members are listed in annex.</span>   |  |   |
| * Special categories of cited documents :<br><br><div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>*Z* document member of the same patent family</p> </div> </div> |  |   |
| Date of the actual completion of the international search<br><br><div style="text-align: center;">3 November 2003</div>  |  | Date of mailing of the international search report<br><br><div style="text-align: center;">28/11/2003</div> |
| Name and mailing address of the ISA<br>European Patent Office, P.B. 5818 Patentlaan 2<br>NL - 2280 HV Rijswijk<br>Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,<br>Fax: (+31-70) 340-3016   |  | Authorized officer<br><br><div style="text-align: center;">Irion, A</div>                                   |

# INTERNATIONAL SEARCH REPORT

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| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT |  |   |
|--|--|---|
| Category *   | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.   |
| X  | <p>---<br/> WO 97 13844 A (CAMBRIDGE ANTIBODY TECH<br/> ;TEMPEST PHILIP RONALD (GB); THOMSON<br/> JULIA) 17 April 1997 (1997-04-17)<br/> figures 1,2,19<br/> page 17, line 25 -page 18, line 21<br/> page 1, line 8 - line 11<br/> page 38, line 6 - line 9<br/> page 38, line 16 - line 20<br/> claims 1-34</p>   | <p>9,12-16,<br/> 21,22,<br/> 26,52,53</p>                                       |
| X  | <p>---<br/> WO 01 62932 A (AMGEN INC)<br/> 30 August 2001 (2001-08-30)<br/> claim 9</p>  | <p>23,26</p>  |
| X  | <p>---<br/> EP 1 106 183 A (GENENTECH INC ;REGENTS<br/> BOARD OF (US)) 13 June 2001 (2001-06-13)</p> <p>page 9, line 23 - line 30<br/> page 17, line 15 - line 24<br/> page 24, line 46 - line 55<br/> page 5, line 5 - line 7<br/> page 10, line 38 - line 44<br/> page 14, line 26 - line 34</p>   | <p>3,6,<br/> 12-14,<br/> 16,<br/> 29-33,<br/> 36-41,<br/> 44-49,<br/> 52,53</p> |
| X  | <p>---<br/> BRAENDLEIN STEPHANIE ET AL:<br/> "Characterization of five new fully human<br/> monoclonal IgM antibodies isolated from<br/> carcinoma patients"<br/> PROCEEDINGS OF THE AMERICAN ASSOCIATION<br/> FOR CANCER RESEARCH ANNUAL,<br/> vol. 43, March 2002 (2002-03), page 970<br/> XP001155782<br/> 93rd Annual Meeting of the American<br/> Association for Cancer Research;San<br/> Francisco, California, USA; April 06-10,<br/> 2002, March, 2002<br/> ISSN: 0197-016X<br/> the whole document</p> | <p>1-53</p>   |
| X  | <p>---<br/> BRAENDLEIN STEPHANIE ET AL: "Human<br/> monoclonal IgM antibodies with apoptotic<br/> activity isolated from cancer patients."<br/> HUMAN ANTIBODIES,<br/> vol. 11, no. 4, 2002, pages 107-119,<br/> XP009020163<br/> ISSN: 1093-2607<br/> the whole document</p> <p>---<br/> -/--</p>   | <p>1-53</p>   |

# INTERNATIONAL SEARCH REPORT

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PCT/IB 03/01335

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| A          | <p>MENG RAYMOND D ET AL: "p53-independent upregulation of KILLER/DR5 TRAIL receptor expression by glucocorticoids and interferon-gamma"</p> <p>EXPERIMENTAL CELL RESEARCH,<br/>vol. 262, no. 2,<br/>15 January 2001 (2001-01-15), pages<br/>154-169, XP002260126<br/>ISSN: 0014-4827<br/>the whole document</p>                   | 1-53                  |
| A          | <p>HUANG YING ET AL: "Sulindac sulfide-induced apoptosis involves death receptor 5 and the caspase 8-dependent pathway in human colon and prostate cancer cells"</p> <p>CANCER RESEARCH,<br/>vol. 61, no. 18,<br/>15 September 2001 (2001-09-15), pages<br/>6918-6924, XP002260127<br/>ISSN: 0008-5472<br/>the whole document</p> | 1-53                  |

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IB 03/01335

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  

Although claims 36-51 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 03/01335

| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s)   | Publication<br>date  |
|---|---|---------------------|--|--|
| WO 0183560                                | A | 08-11-2001          | AU 5936601 A<br>CA 2407965 A1<br>CN 1440424 T<br>CZ 20023917 A3<br>EP 1287035 A1<br>NO 20025253 A<br>WO 0183560 A1   | 12-11-2001<br>08-11-2001<br>03-09-2003<br>14-05-2003<br>05-03-2003<br>18-12-2002<br>08-11-2001   |
| WO 9713844                                | A | 17-04-1997          | AT 190650 T<br>AT 199091 T<br>AU 702049 B2<br>AU 7140596 A<br>CA 2233042 A1<br>DE 69607191 D1<br>DE 69607191 T2<br>DE 69611766 D1<br>DE 69611766 T2<br>DK 945464 T3<br>EP 0853661 A1<br>EP 0945464 A1<br>ES 2146020 T3<br>ES 2156035 T3<br>WO 9713844 A1<br>GB 2305921 A ,B<br>GR 3033436 T3<br>GR 3035775 T3<br>JP 2000500643 T<br>PT 853661 T<br>PT 945464 T | 15-04-2000<br>15-02-2001<br>11-02-1999<br>30-04-1997<br>17-04-1997<br>20-04-2000<br>28-09-2000<br>15-03-2001<br>02-08-2001<br>07-05-2001<br>22-07-1998<br>29-09-1999<br>16-07-2000<br>01-06-2001<br>17-04-1997<br>23-04-1997<br>29-09-2000<br>31-07-2001<br>25-01-2000<br>31-08-2000<br>31-07-2001 |
| WO 0162932                                | A | 30-08-2001          | US 2003103978 A1<br>AU 3868001 A<br>CA 2400929 A1<br>EP 1257648 A1<br>JP 2003523772 T<br>WO 0162932 A1   | 05-06-2003<br>03-09-2001<br>30-08-2001<br>20-11-2002<br>12-08-2003<br>30-08-2001   |
| EP 1106183                                | A | 13-06-2001          | EP 1106183 A2<br>AU 4982097 A<br>BR 9712410 A<br>CN 1234072 A<br>EP 0931147 A1<br>JP 2001504326 T<br>JP 2001302540 A<br>KR 2000049261 A<br>TR 9901615 T2<br>WO 9817797 A1<br>ZA 9709185 A  | 13-06-2001<br>15-05-1998<br>19-10-1999<br>03-11-1999<br>28-07-1999<br>03-04-2001<br>31-10-2001<br>25-07-2000<br>22-11-1999<br>30-04-1998<br>14-04-1999   |